



Many developments now incorporate complex technology, the value and importance of which can exceed the construction elements of a project.

## Complex Technology Facilities

### Examples include:

- Data centres, either owner occupied or more prevalently now developed by investment funds. High efficiency is now a must, resilience must be maintained to preserve integrity, and speed of delivery is important to gain market share.
- Edge data centres, small facilities to site data processing close to the user, self driving vehicles and other technology, linked to the roll out of 5G, require latency of data communications to be reduced, which can only be achieved by localised processing.
- Intelligent buildings is a growing trend with converged networks to control the internal environment, maintain security, deliver and receive information and provide user IT functions.
- Smart city infrastructure, often in tandem with energy distribution, to provide people in the public domain with information and services.
- Energy distribution incorporating renewable/low carbon sources and grid support to provide homes and businesses with affordable and sustainable power and heating.

It is important that the Project Manager has a thorough understanding of the technologies to be deployed, together with a disciplined approach to the control of cost, time and quality.

Barry Shambrook is Partner in charge of the HartDixon Project Management – Complex Technology Facilities bringing the following credentials and experience:

- Over 40 years experience of design and project management of building and facility engineering.
- BICSI RCDD (Registered Communications Distribution Designer), MIET, DCPRO Certified Data Centre Specialist.
- Major contributor to ANSI/BICSI 002 Data Centre Design and Implementation Best Practices, ANSI/ BICSI 007 Intelligent Buildings and Premises and ANSI/BICSI 009 Data Centre Operations.
- Invited onto TIA (Telecoms Industry Association) TR42.1 committee to develop new standard for Edge Data Centres.
- Design and Implementation Management of Data Centres in UK and abroad.
- Design and Implementation Management of pioneering converged network projects such as Southend Airport and a Premier League Football Club training centre.